

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of Docket No: Q91849

Kazutaka MATSUZAWA, et al.

Appn. No.: 10/559,619 Group Art Unit: 3753

Confirmation No.: 5576 Examiner: Unknown

Filed: April 18, 2006

For: VALVE FOR A SAFETY TIRE, FILLING ADAPTER WITH A COUPLER, PRESSURE  
RELEASING ADAPTER, AND PRESSURE RELEASING METHOD

**REQUEST FOR CORRECTED OFFICIAL FILING RECEIPT**

ATTN: Office of Initial Patent Examination  
Filing Receipt Correction  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

We enclose a copy of the Official Filing Receipt for the above-identified application and request  
the following corrections:

**Total Claims**

[8] 7

**Assignment for Published Patent Application**

BRIDGESTONE CORPORATION

PACIFIC INDUSTRIAL CO., LTD.

Verification for the requested corrections is indicated on the Article 19 Amendment and  
Assignment filed April 18, 2006.

Respectfully submitted,



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WASHINGTON OFFICE

**23373**

CUSTOMER NUMBER

Date: September 22, 2006



## UNITED STATES PATENT AND TRADEMARK OFFICE

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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY.DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/559,619	04/18/2006	3753	1030	Q91849	15	8	2

CONFIRMATION NO. 5576

23373  
 SUGHRUE MION, PLLC  
 2100 PENNSYLVANIA AVENUE, N.W.  
 SUITE 800  
 WASHINGTON, DC 20037

## FILING RECEIPT



\*OC000000019636562\*

Date Mailed: 08/16/2006

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Kazutaka Matsuzawa, Tokyo, JAPAN;  
 Masahiko Yamamoto, Gifu, JAPAN;

Assignment for Published Patent Application → Bridgestone Corporation  
 Power of Attorney: The patent practitioners associated with Customer Number 23373, and

## Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP04/07809 06/04/2004

Pacific Industrial Co.,  
 Ltd.

## Foreign Applications

JAPAN 2003-161408 06/05/2003

If Required, Foreign Filing License Granted: 07/15/2006

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US10/559,619

Projected Publication Date: 10/26/2006

Non-Publication Request: No

Early Publication Request: No

Title

Valve for safety tire filling adaptor with a coupler pressure releasing adapter and pressure releasing method /

**Preliminary Class**

137

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Amendment of the Claims under Article 19(1) (Rule 46)

WHAT IS CLAIMED IS:

1. (amended) A valve for a safety tire, equipped with a charging opening for charging gas into an outer gas chamber and an inner gas chamber, which are provided in a tire having a double structure, said valve for a safety tire comprising:
  - an air-supply passage for an inner gas chamber, which causes the charging opening and the inner gas chamber to communicate with each other;
  - an air-supply passage for an outer gas chamber, which causes the charging opening and the outer gas chamber to communicate with each other;
  - a nonreturn valve member for an inner gas chamber, provided in said air-supply passage for an inner gas chamber, said nonreturn valve member for an inner gas chamber allowing gas to flow from the atmospheric side into the gas chamber and making it possible to prevent gas from flowing from the gas chamber into the atmosphere, and also allowing gas to flow from the gas chamber into the atmosphere by carrying out a predetermined operation;
  - a nonreturn valve member for an outer gas chamber, provided in said air-supply passage for an outer gas chamber, said nonreturn valve member for an outer gas chamber allowing gas to flow from the atmospheric side into the gas chamber and making it possible to prevent gas from flowing from the gas chamber into the atmosphere, and also allowing gas to flow from the gas chamber into the atmosphere by carrying out a predetermined operation; and
  - an engaging portion that allows a filling adapter with a coupler to be mounted at the charging opening in only a fixed direction, which filling adapter includes a first passage that can supply gas to the inner gas chamber by

communicating with said air-supply passage for an inner gas chamber, and includes a second passage that can supply gas to the outer gas chamber by communicating with said air-supply passage for an outer gas chamber so as to make a pressure difference between the outer gas chamber and the inner gas chamber, the engaging portion allowing the filling adapter to be mounted so that said air-supply passage for an inner gas chamber communicates with the first passage and said air-supply passage for an outer gas chamber communicates with the second passage.

2. The valve for a safety tire according to claim 1, wherein detachment-restraining means for restraining detachment of said nonreturn valve member for an outer gas chamber is provided in said air-supply passage for an outer gas chamber at a position nearer to the charging opening than said nonreturn valve member for an outer gas chamber.

3. (canceled)

4. (amended) A filling adapter with a coupler, which engages with a valve for a safety tire equipped with an air-supply passage for an outer gas chamber for charging gas into an outer gas chamber of a tire having a double structure, and an air-supply passage for an inner gas chamber for charging gas into an inner gas chamber of the tire, so as to charge gas from a gas supply source into the outer gas chamber and into the inner gas chamber via the air-supply passage for an outer gas chamber and the air-supply passage for an inner gas chamber, said filling adapter comprising:

a main body portion engaging with said valve for a safety tire;

a second coupling provided in said main body portion and including a valve core connectable to a pressure source to allow gas from the pressure source to be supplied to the tire;

an air chamber provided in said main body portion and connected to said second coupling;

a first passage provided in said main body portion and causing said air chamber and the air-supply passage for an inner gas chamber to communicate with each other;

a second passage provided in said main body portion and causing said air chamber and the air-supply passage for an outer gas chamber to communicate with each other;

differential pressure setting means provided in said second passage and distributing gas from the gas supply source to said first passage and said second passage so as to generate a pressure difference therebetween; and

a first coupling connected to said second passage and allowing gas in the outer gas chamber to be released to the atmosphere by carrying out a predetermined operation.

5. (amended) A pressure releasing adapter used in a safety tire-rim assembly equipped with a pneumatic tire, an expandable air pocket provided within the pneumatic tire and forming an inner gas chamber, a rim which forms an outer gas chamber between the pneumatic tire and the air pocket when the pneumatic tire and the air pocket are mounted, and the valve for a safety tire according to claim 1, said pressure releasing adapter being used to release gas both in the inner gas chamber and in the outer gas chamber to the atmosphere, and comprising:

a main body portion that can engage with said valve for a safety tire; and operating means provided in said main body portion and causing gas in the inner gas chamber and gas in the outer gas chamber to be released to the atmosphere so as not to expand said air pocket, by carrying out a predetermined operation with respect to the nonreturn valve member for an inner gas chamber and the nonreturn valve member for an outer gas chamber of said valve for a safety tire when said main body portion is engaged with said valve for a safety tire.

6. (amended) A pressure releasing method for releasing, to the atmosphere, gas in an inner gas chamber and gas in an outer gas chamber of a safety tire-rim assembly equipped with a pneumatic tire, an expandable air pocket disposed within the pneumatic tire and forming the inner gas chamber, a rim that forms the outer gas chamber between the pneumatic tire and the air pocket when the pneumatic tire and the air pocket are mounted, and the valve for a safety tire according to claim 1,

wherein the nonreturn valve member for an inner gas chamber is removed in advance of the nonreturn valve member for an outer gas chamber.

7. (amended) A pressure releasing method for releasing, to the atmosphere, gas in an inner gas chamber and gas in an outer gas chamber of a safety tire-rim assembly equipped with a pneumatic tire, an expandable air pocket disposed within the pneumatic tire and forming the inner gas chamber, a rim that forms the outer gas chamber between the pneumatic tire and the air pocket when the pneumatic tire and the air pocket are mounted, and the valve for a safety tire according to claim 1,

wherein gas in the inner gas chamber and gas in the outer gas chamber are released to the atmosphere by engaging, with said valve for a safety tire, a pressure

releasing adapter including operating means which operates the nonreturn valve member for an inner gas chamber and the nonreturn valve member for an outer gas chamber at the same time or which operates the nonreturn valve member for an inner gas chamber in advance of the nonreturn valve member for an outer gas chamber.

8. The pressure releasing method according to claim 7, wherein said operating means includes a first protruding portion for operating said nonreturn valve member for an inner gas chamber, and a second protruding portion for operating said nonreturn valve member for an outer gas chamber, and said first protruding portion is longer than said second protruding portion.

**For Non-U.S. Clients**

**Assignment**

Whereas, I/We, Kazutaka Matsuzawa and Masahiko Yamamoto

of Kodaira -shi, Tokyo, Japan and Ogaki-shi, Gifu, Japan

hereinafter called assignor(s), have invented certain improvements in

**VALVE FOR A SAFETY TIRE, FILLING ADAPTER WITH A  
COUPLER, PRESSURE RELEASING ADAPTER, AND  
PRESSURE RELEASING METHOD**

and executed an application for Letters Patent of the United States of America therefo

on January 30, 2006

and Whereas, BRIDGESTONE CORPORATION of No. 10-1, Kyobashi 1-chome, Chuo-ku, Tokyo 104-8340, Japan and PACIFIC INDUSTRIAL CO., LTD. of 100, Kyutoku-cho, Ogaki-shi, Gifu 503-8603, Japan (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3212 to insert here in parentheses (Application number \_\_\_\_\_ filed \_\_\_\_\_) the filing date and application number of said application when known.

Date: Jan 30, 2006

*K. Matsuzawa*

s/

Date: Jan 30, 2006

*M. Yamamoto*

s/

Date:

s/

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)